

WHAT IS CLAIMED IS:

1. A communication control apparatus for implementing transmission and reception of data to and from a plurality of firewall devices connectible to a mobile station, the communication control apparatus comprising:

storing means for storing firewall configuration information suitable for the mobile station, in correspondence with identification information of the mobile station;

detecting means for detecting a firewall device connected to the mobile station; and

transmitting means for, in conjunction with the detection of the firewall device connected to the mobile station, transmitting the firewall configuration information corresponding to the identification information of the mobile station, to the firewall device.

2. A firewall apparatus for implementing relaying in transmission and reception of data between the communication control apparatus as set forth in Claim 1, and a plurality of mobile stations, the firewall apparatus comprising:

retaining means for retaining a filtering condition included in the firewall configuration information, in correspondence with identification information of each mobile station;

distinguishing means for distinguishing a mobile

station being a destination of a packet transmitted from the communication control apparatus; and

determining means for determining the propriety of passage of the packet in accordance with the filtering condition corresponding to the mobile station distinguished by the distinguishing means.

3. A data communication method in which a communication control apparatus comprising storing means for storing firewall configuration information suitable for a mobile station, in correspondence with identification information of the mobile station, implements transmission and reception of data to and from a plurality of firewall devices connectible to the mobile station, the data communication method comprising:

a detecting step wherein detecting means of the communication control apparatus detects a firewall device connected to the mobile station; and

a transmitting step wherein, in conjunction with the detection of the firewall device connected to the mobile station, transmitting means of the communication control apparatus transmits the firewall configuration information corresponding to the identification information of the mobile station, to the firewall device.

4. A data communication method in which a firewall apparatus implements relaying in transmission and reception of data between the communication control apparatus as set

forth in Claim 1, and a plurality of mobile stations, the data communication method comprising:

5        a retaining step wherein retaining means of the firewall apparatus retains a filtering condition included in the firewall configuration information, in correspondence with identification information of each mobile station;

10       a distinguishing step wherein distinguishing means of the firewall apparatus distinguishes a mobile station being a destination of a packet transmitted from the communication control apparatus; and

15       a determining step wherein determining means of the firewall apparatus determines the propriety of passage of the packet in accordance with the filtering condition corresponding to the mobile station distinguished in the distinguishing step.